

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P733952

Luminaire Tested: **24FCZ2-30-HRP-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P733952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30-HRP-B2750-W2D-CP250-3000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

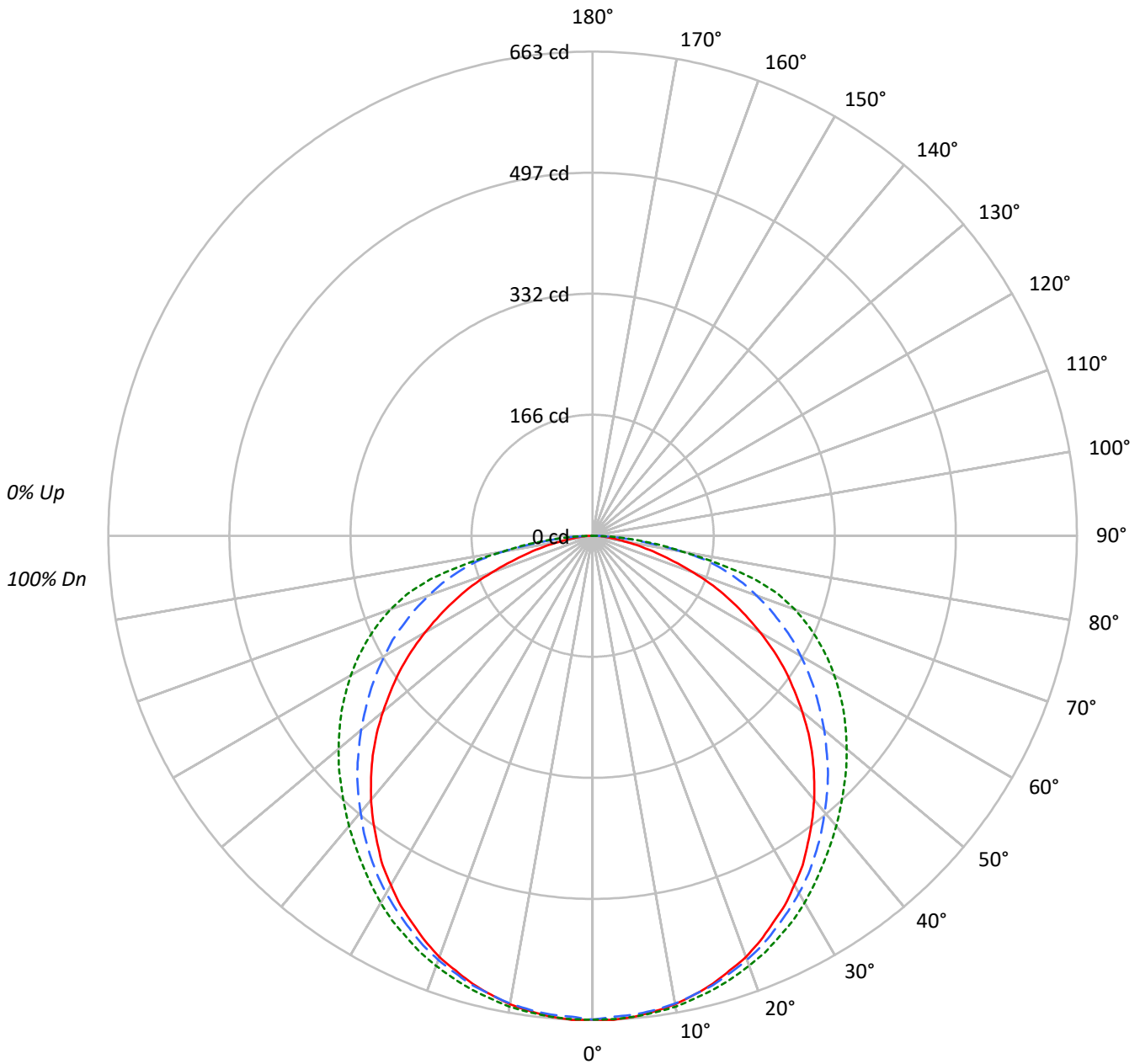
Lumens per Lamp: N/A
Luminaire Lumens: 2042.0 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	935	935	935
5°	936	932	936
10°	934	932	938
15°	928	931	939
20°	922	928	941
25°	911	924	943
30°	900	921	946
35°	885	916	947
40°	869	910	956
45°	850	910	971
50°	822	909	997
55°	793	915	1033
60°	748	929	1079
65°	691	951	1139
70°	603	984	1214
75°	490	1035	1254
80°	361	1015	1015
85°	277	748	844



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.8	3.1
10°-20°	180.2	8.8
20°-30°	274.4	13.4
30°-40°	333.2	16.3
40°-50°	352.0	17.2
50°-60°	332.1	16.3
60°-70°	276.2	13.5
70°-80°	181.7	8.9
80°-90°	49.5	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	517.4	25.3
0°-40°	850.5	41.7
0°-60°	1534.6	75.2
0°-90°	2042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2042.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	663	663	663	663	663	
5°	661	661	658	661	661	63
15°	635	636	637	643	643	179
25°	585	588	593	604	605	270
35°	514	520	532	545	550	322
45°	426	434	456	478	486	328
55°	322	336	372	407	420	287
65°	207	231	285	327	341	205
75°	90	131	190	225	230	97
85°	17	38	46	51	52	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	662.6	662.6	662.6	662.6	662.6
2.5°	663.4	662.6	659.1	662.6	662.6
5°	660.9	660.9	658.2	660.9	660.9
7.5°	656.5	656.5	654.8	658.2	658.2
10°	651.5	651.5	650.5	654.8	654.8
12.5°	643.7	644.6	643.7	648.8	648.8
15°	635.2	636.0	636.9	642.9	642.9
17.5°	624.1	625.8	627.5	634.3	635.2
20°	613.8	614.7	618.0	625.8	626.6
22.5°	600.1	602.7	606.9	614.7	617.2
25°	584.7	588.1	593.3	603.6	605.3
27.5°	570.2	572.8	579.6	590.7	594.2
30°	552.3	556.5	565.1	576.2	580.4
32.5°	535.2	539.4	549.6	561.7	565.1
35°	513.8	519.7	531.8	545.4	549.6
37.5°	493.3	499.2	513.8	529.1	534.3
40°	471.8	478.7	494.1	512.1	518.9
42.5°	448.8	458.2	475.3	495.0	502.7
45°	425.7	434.3	455.7	477.9	486.4
47.5°	400.9	411.1	434.3	460.7	471.0
50°	374.5	387.3	413.8	442.9	454.0
52.5°	347.9	362.4	392.3	424.9	436.8
55°	322.2	336.0	371.8	406.9	419.7
57.5°	294.1	311.1	350.5	388.1	400.9
60°	265.0	283.9	329.1	368.4	382.1
62.5°	236.0	257.3	308.6	347.9	362.4
65°	206.9	230.8	284.7	326.6	341.1
67.5°	178.7	205.2	262.4	304.4	318.9
70°	146.2	179.5	238.5	279.5	294.1
72.5°	116.3	154.8	215.5	253.9	266.7
75°	89.8	130.8	189.8	224.9	229.9
77.5°	65.9	106.9	163.2	175.3	176.1
80°	44.4	85.5	124.9	123.1	124.9
82.5°	29.1	64.1	78.7	88.1	88.9
85°	17.1	37.6	46.2	51.3	52.1
87.5°	8.6	12.8	16.3	17.1	18.8
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)